

OM nucleic - nucleic search, using sw model  
 Run on: September 4, 2002, 14:29:52 ; Search time 714.74 Seconds  
 (without alignments)  
 5809.054 Million cell updates/sec

Title: US-09-052-089a-8  
 Perfect score: 1975  
 Sequence: 1 GGCACGGAGGTGCGGGTGGAGC..... CAAAAA.....AAAAAAA 1975

Scoring table: IDENTITY\_NUC  
 Gapov 10.0 , Gapext 1.0

Searched: 179756 seqs, 10463268293 residues  
 Total number of hits satisfying chosen parameters: 3595312

Minimum DB seq length: 0  
 Maximum DB seq length: 200000000

Post-processing: Minimum.Match 0%  
 Listing first 45 summaries

Database : GenEmbl:  
 1: gb:ba: \*  
 2: gb:htg: \*  
 3: gb\_in: \*  
 4: gb\_cm: \*  
 5: gb\_cv: \*  
 6: gb\_bt: \*  
 7: gb\_ph: \*  
 8: gb\_Pl: \*  
 9: gb\_pr: \*  
 10: gb\_ro: \*  
 11: gb\_sts: \*  
 12: gb\_sy: \*  
 13: gb\_un: \*  
 14: gb\_vl: \*  
 15: em\_ba: \*  
 16: em\_fun: \*  
 17: em\_hum: \*  
 18: em\_in: \*  
 19: em\_mu: \*  
 20: em\_cm: \*  
 21: em\_or: \*  
 22: em\_ov: \*  
 23: em\_bt: \*  
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 25: em\_pl: \*  
 26: em\_ro: \*  
 27: em\_sts: \*  
 28: em\_un: \*  
 29: em\_vl: \*  
 30: em\_htg\_hum: \*  
 31: em\_htg\_inv: \*  
 32: em\_htg\_other: \*  
 33: em\_htg\_inv: \*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
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RESULT 1  
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 LOCUS MMU77844 Mus musculus mTRIP (mTRIP) mRNA, complete cds.  
 DEFINITION mTRIP: a novel component of the tumor necrosis factor receptor (TNFR)- and CD30-TRAF signaling complexes that inhibits TRAF2-mediated NF- $\kappa$ B activation  
 ACCESSION U77844.1 GI:2039305  
 VERSION  
 KEYWORDS house mouse.  
 SOURCE  
 ORGANISM Mus musculus  
 Eukaryota: Metazoa: Chordata: Craniata: Vertebrata: Euteleostomi: Mammalia: Eutheria: Rodentia: Sciurognathi: Muridae: Murinae: Mus.  
 REFERENCE 1 (bases 1 to 1981)  
 AUTHORS Lee, S.Y., Lee, S.Y. and Choi, Y.  
 TITLE TRAF-interacting protein (mTRIP): a novel component of the tumor necrosis factor receptor (TNFR)- and CD30-TRAF signaling complexes that inhibits TRAF2-mediated NF- $\kappa$ B activation  
 J. Exp. Med. 185 (7), 1275-1285 (1997)  
 JOURNAL  
 MEDLINE 97258620  
 REFERENCE 2 (bases 1 to 1981)  
 AUTHORS Lee, S.Y., Lee, S.Y. and Choi, Y.  
 TITLE Direct Submission  
 JOURNAL Submitted (10-NOV-1996) Immunology, The Rockefeller University, 1230 York Avenue Box 295, New York, NY 10021, USA



Db	1746	CTGACACCGTGTGCTGAGCTCTTGTGTTTATAGACAGGTCATGACTCA	1805
Qy	1800	AGTGGATGGAGTCCTGGGGATCTATCAGGCTGAGACCCCGCCCTGAACCTCTG	1859
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Qy	1860	CCGCTCTCAGCTATTTGTAATTAGGGTAGGGTGTAGGAAAGGGGG	1919
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Qy	1920	AAGTGGTCTGTGTAATAATAAAAGGATCTTCTCCTACAAAAAAAGAAAAAA	1975
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.			
REFERENCE	BC017374	2024 bp mRNA linear ROD 14-NOV-2001	
IMAGE:3990371, mRNA, complete cds.			
AUTHORS	BC017374		
JOURNAL	BC017374.1	GI:16924208	
REMARK			
COMMENT			
Tissue	Submitted (13-NOV-2001) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590, USA		
Procurement	NIH-MGC Project	URI: http://mgc.nci.nih.gov	
Procurement	Contact: MGC help desk		
Procurement	Email: cgapsb-r@mail.nih.gov		
Procurement	Procurement: Gilbert Smith, Ph.D.		
CDNA Library Preparation	CDNA Library Preparation: Life Technologies, Inc.		
CDNA Library Arrayed	By: The I.M.A.G.E. Consortium (LILNL)		
DNA Sequencing by	Institute for Systems Biology		
http://www.systemsbiology.org			
contact: amadan@systemsbiology.org			
Anup Madan, Jessica Fahey, Erin Helton, Mark Ketteman, Anuradha Madan, Stephanie Rodrigues, Amy Sanchez and Michelle Whiting			
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LILNL at: http://image.lilnl.gov			
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ACCESSION	BC017374		
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KEYWORDS	MGC		
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.			
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REMARK			
COMMENT			
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Procurement	NIH-MGC Project	URI: http://mgc.nci.nih.gov	
Procurement	Contact: MGC help desk		
Procurement	Email: cgapsb-r@mail.nih.gov		
Procurement	Procurement: Gilbert Smith, Ph.D.		
CDNA Library Preparation	CDNA Library Preparation: Life Technologies, Inc.		
CDNA Library Arrayed	By: The I.M.A.G.E. Consortium (LILNL)		
DNA Sequencing by	Institute for Systems Biology		
http://www.systemsbiology.org			
contact: amadan@systemsbiology.org			
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IMAGE:3990371, mRNA, complete cds.			
ACCESSION	BC017374		
VERSION	BC017374.1	GI:16924208	
KEYWORDS	MGC		
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.			
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REMARK			
COMMENT			
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IMAGE:3990371, mRNA, complete cds.			
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KEYWORDS	MGC		
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ORGANISM	Mus musculus		
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.			
REFERENCE	BC017374	2024 bp mRNA linear ROD 14-NOV-2001	
IMAGE:3990371, mRNA, complete cds.			
AUTHORS	BC017374		
JOURNAL	BC017374.1	GI:16924208	
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Procurement	Contact: MGC help desk		
Procurement	Email: cgapsb-r@mail.nih.gov		
Procurement	Procurement: Gilbert Smith, Ph.D.		
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IMAGE:3990371, mRNA, complete cds.			
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REFERENCE	BC017374	2024 bp mRNA linear ROD 14-NOV-2001	
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Procurement	Procurement: Gilbert Smith, Ph.D.		
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RESULT	2		
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ACCESSION	BC017374		
VERSION	BC017374.1	GI:16924208	
KEYWORDS	MGC		
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ORGANISM	Mus musculus		
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.			
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IMAGE:3990371, mRNA, complete cds.			

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 KEYWORDS  
 SOURCE Unknown.  
 ORGANISM Unclassified.  
 1 (bases 1 to 2065)  
 Rabinfeld, B.; Polakis, P.G.; Lingefelter, C. and Vuong, T.T.;  
 AUTHORS Modulators of B-RAF1 activity  
 TITLE  
 JOURNAL Patent: US 5948643-A 1 07-SEP-1999;  
 FEATURES Location/Qualifiers 1. . 2065  
 source /organism="unknown"  
 BASE COUNT 561 a 526 c 561 g 417 t  
 ORIGIN

Query Match 54 %; Score 1075.4; DB 6; Length 2065;  
 Best Local Similarity 75.1%; Pred. No. 3.6e-297;  
 Matches 1460; Conservative 0; Mismatches 426; Indels 59; Gaps 7;

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ACCESSION	BD006990	BD006990					
VERSION	1	1					
KEYWORDS	JP 2001502893-A/1.						
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ORGANISM	unclassified.						
REFERENCE	1 (bases 1 to 2065)						
AUTHORS	lubinoff, B.; porakisu, P.; rigenferuta, C. and buon, T. T.						
TITLE	Modulators of BRCA1 activity						
JOURNAL	Journal of Pharmacology and Experimental Therapeutics						
PATENT	JP 2001502893-A 1 06-MAR-2001;						
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PD	06-MAR-2001						
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BASE COUNT	561 a 526 c 561 g 417 t						
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Best Local Similarity 75.1%; Pred. No. 3.6e-297; Matches 1460; Conservative 0; Mismatches 426; Indels 59; Gaps 7;							
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 REFERENCE 1. (Bakes 1 to 2002)  
 AUTHORS Strausberg, R.  
 TITLE direct Submission  
 JOURNAL Submitted (13-DEC-2001) National Institutes of Health, Mammalian  
 Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,  
 USA  
 REMARK NIH-MGC Project URL: <http://mgc.nci.nih.gov>  
 Contact: MGC help desk  
 Email: cagpus-r@mail.nih.gov  
 Tissue Procurement: DCTD/DPMP  
 CDNA Library Preparation: Rubin Laboratory  
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)  
 DNA Sequencing by: Genome Sequence Centre,  
 BC Cancer Agency, Vancouver, BC, Canada  
 Info@bogsc.bc.ca  
 Steven Jones, Jennifer Asano, Ian Boddet, Yaron Butterfield,  
 Susanna Chan, Readman Chiu, Chris Fjell, Erin Garland, Ran Guin,  
 Letitia Hsiao, Martin Krywinski, Reta Kutschie, Oliver Lee, Soo  
 Sen Lee, Victor Liing, Carrie Mathewson, Candice McLeavy, Steven  
 Ness, Pawan Pandoh, Anna-Liisa Prabhu, Parvaneh Saeedi, Jacqueline



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REFERENCE			1 (bases 1 to 2007)	REFERENCE
REFERENCE			Lee, S.Y., Lee, S.Y. and Choi, Y.	REFERENCE
REFERENCE			TRAF-interacting protein (TRIP): a novel component of the tumor necrosis factor receptor (TNFR)- and CD30-TRAF signaling complexes that inhibits TRAF2-mediated NF- $\kappa$ B activation	REFERENCE
JOURNAL			J. Exp. Med. 185 (7), 1275-1285 (1997)	JOURNAL
MEDLINE			97256620	MEDLINE
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REFERENCE			Submitted (10-Nov-1996) Immunology, The Rockefeller University, 1230 York Avenue Box 295, New York, NY 10021, USA	REFERENCE
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Indels			61;	Gaps
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QY	728	AAGAGTATGAGAAATCTGAGGAAGCTCGAAGGCCACAGGGACTGCTGAC	787
Db	719	AAGAGTACAGAACTCTAAAGAGAGCCACGGCTCAGGGAGGTGGCTGAC	778
QY	788	AGAGGATTGGCTCTCTAGGCAAGTGAAGACTCTCAACACTGAGCTGATCAG	847
Db	779	GGAGGATTGGCTCTCTAGGCAAGTGAAGACTCTCAACACTGAGCTGATCAG	838
QY	848	CCAAAGTAACTGAGGAGCCAGAACGACTTACAAGTGTGACCCAGGATCAG	907
Db	839	CCAAAGTAACTGAGGAGCCAGAACGACTTACAAGTGTGACCCAGGATCAG	898
QY	908	GCCTAAGAAAAGAAGCTGATGATCTCTCAGGGACCTTGAGGCTGCCCTC	966
Db	899	GCCTAAGAAAAGAAG-CTAAAGATCTGCAAGGAAACCTTGACCTGGCAG	957
QY	967	GAGACGGTCAGGCCCTGGTTTGAGAGGCCACCCCTGTTGAGGATGATG	1026
Db	958	GAGACTGAGCCGCTGGCTGGTTTGAGAGGCCACCCCTGTTGAGGATGATG	1014
QY	1027	CTTCACCCAGCACCCCTTGGTGTAGATGACTCTCAATTACCCCTTGATGAA	1086
Db	1015	CTTCACCCAGCACCCCTTGGTGTAGATGACTCTCAATTACCCCTTGATGAA	1074
QY	1087	CCCTCAACCCAGACCTCGCTCCAGCATGCTCCAGAGCTGCTGGAGAG	1146
Db	1075	CCCTCAACCCAGACCTCGCTCCAGCATGCTCCAGAGCTGCTGGAGAG	1134
QY	1147	GAAGCTCTCCATGCAAGATGCTCTCAAGAAGTCTCGAGCGGAGTC	1206
RESULT	8		
BC006929			
LOCUS	BC006929	3694 bp	mRNA
DEFINITION	Mus musculus, TRAF-interacting Protein, clone MCC:11463		linear
IMAGE	:156502, mRNA, complete cds.		ROD 12-JUL-2001
ACCESSION	BC006929		
VERSION	1		
KEYWORDS	MCC,		
SOURCE	house mouse.		
ORGANISM	Mus musculus.		
REFERENCE	1 (bases 1 to 3694)		

AUTHORS Strausberg, R.  
 TITLE Direct Submission  
 JOURNAL Submitted (27-APR-2001) National Institutes of Health, Mammalian  
 Gen Collection (MGC), Cancer Genomics Office, National Cancer  
 Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,  
 USA  
 REMARK NIH-MGC Project URL: <http://mgc.ncbi.nlm.nih.gov>  
 COMMENT Contact: MGC help desk  
 Email: [cgbps@nlm.nih.gov](mailto:cgbps@nlm.nih.gov)  
 Tissue Procurement: Jeffrey Green, M.D.  
 cDNA Library Preparation: Life Technologies, Inc.  
 DNA Sequencing by: Baylor College of Medicine Human Genome  
 Sequencing Center  
 Center code: BCM-HGSC  
 Web site: <http://www.hgsc.bcm.edu/cdna/>  
 Contact: [villalon@bcm.tmc.edu](mailto:villalon@bcm.tmc.edu),  
 Villalon, D.M., Luna, R.A., Hale, S.M., Hulyk, S., Lu, X., Garcia, A.M., Holloway, M., Telford, B., Hodgson, A., Bouck, J., Yu, W., Muzny, D.M., Gibbs, R.A.

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LINL site: <http://image.lnl.gov>

Series: IMAK Plate: 16 Row: a Column: 23

This clone was selected for full length sequencing because it passed the following selection criteria: matched mRNA g1: 2039305.

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 /clone="MGC:11463 IMAGE:3156502"  
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 /db\_host="DBI:0B"  
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 VMOJL"

BASE COUNT

858 a 951 c 976 g 909 t

ORIGIN

Query Match 48.2% Score 952.6; DB 10; Length 3694; Best Local Similarity 93.1%; Pred. No. 6.6e-262; Matches 1057; Conservative 0; Mismatches 9; Indels 69; Gaps 3;

Qy 902 TCACGAGCTAAGAAAGAAGCTCGATGATCTCCAGGACCTTGAGCTGCC-TCC-GCG 960  
 Db 2561 TCCAGAGCTAAGAAAGAAG-CTGATGATCTCCAGGACCTTGAGCTGCC-TCC-GCG 2619

Qy 961 ACCATGAGAGGTCAGGCCCTGTTTGAGAGCCAGCCCTGTGGAGATGATGAC 1020  
 Db 2620 ACCATGAGAGCTCAGGCCCTGTTTGAGAGCCAGCCCTGTGGAGATGAC 2679

Qy 1021 CGGAGGCTTCACAGCCACCTCTGGTGTAGATGATCTCAATACACCTTGATGAA 1080  
 Db 2680 CGGAGGCTTCACAGCCACCTCTGGTGTAGATGATCTCAATACACCTTGATGAA 2739

Qy 1081 ATACACCCCTCAACCCAGACCTCTGGCTCCACGATGCTCCAAAGAGCTGTGCTG 1140  
 Db 2740 ATACACCCCTCAACCCAGACCTCTGGCTCCAAAGAGCTGTGCTG 2799

Qy 1141 GAGGGCAG- - - - - 1150

RESULT 9

AX30344 AX35034 7542 bp DNA linear PAT 06-FEB-2002

LOCUS AX35034  
 DEFINITION Sequence 3 from Patent WO0192492.  
 ACCESSION AX35034  
 VERSION AX35034.1 GI:18616006

KEYWORDS

SOURCE human  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarhini; Hominidae; Homo.  
 REFERENCE 1 (siles); van,C.C., Wei,M.H., Ketchum,K.C., Merkulov,G.C. and Beasley,B.M.  
 AUTHORS Isolated human kinase proteins, nucleic acid molecules encoding

human kinase proteins, and uses thereof  
Patent: WO 0192495-A 3 06-DEC-2001;  
Applier: Robert A. Millman Assistant Secretary (US)  
Location/Qualifiers  
FEATURES  
source  
/organism="Homo sapiens"  
1. .7542  
BASE COUNT  
ORIGIN  
1612 a /db\_xref="taxon:9606" 1977 c 2156 g 1797 t  
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Best Local Similarity 5.6%; Score 111.4; DB 6; Length 7542;  
Matches 162; Conservative 0; Mismatches 46; Indels 3; Gaps 2;  
Qy 2 GCAGCAGGGCGCGGGAGGAATTGAGGACCGGAG--CGGTGACGGGTCACCA 59  
Db 7295 GGAACTCGCTGGAGGCAATTGAGCAACGGAGCGGGGGCTACGAA 7354  
Qy 60 ACTGTCGTCGTCCTG-GCAGCTGTCCTGGCTGCTGAGTCGAGCCATAGCTA 118  
Db 7355 GCGGACCGTGTAGCTTCTGGCTGCTGGCCCTGTAGCTCCAGCATATGCTA 7414  
Qy 119 TCCCTCTCTCTGCACTATCTGCTCCGACTCTTCGATCACTTCCGTGAGTGCTGCCA 178  
Db 7415 TCGTGTCTGCACTATCTGCTCCGACTCTTCGATCACTTCCGTGAGTGCTGCCA 7474  
Qy 179 TCCACTGTGCGCAACTTCACTTGCAATG 209  
Db 7475 TCCACTGCGCCACACTTCACTTGCAATG 7505

RESULT 10  
AC099330 AC099330 163424 bp DNA linear HTG 09-NOV-2001  
DEFINITION Homo sapiens chromosome 3 clone RP11-78010, WORKING DRAFT SEQUENCE,  
ACCESSION AC099330 AC068701  
VERSION 1.0  
KEYWORDS HGNC; HGVS\_PPHASE1; HGVS\_DRAFT; HGVS\_FULLTOP; HGVS\_ACTIVEFIN.  
SOURCE Homo sapiens  
ORGANISM Homo sapiens  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1 (bases 1 to 163424)  
AUTHORS Kaul, R. K., Olson, M.V., Raymond, C. and Haugen, E.D.  
TITLE Direct Submission  
JOURNAL Unpublished  
REFERENCE 2 (bases 1 to 163424)  
AUTHORS Kaul, R. K., Olson, M.V., Raymond, C. and Haugen, E.D.  
TITLE Direct Submission  
JOURNAL Submitted (09-NOV-2001) Genome Center, University of Washington,  
Box 352145 Seattle, WA 98195, USA  
COMMENT On Nov 9, 2001 this sequence version replaced gi:8247914.  
..... Genome Center  
Center: University of Washington Genome Center  
Center Code: UWGC  
Web site: <http://www.genome.washington.edu>  
Contact: uwgchgs@u.washington.edu  
Drafting Center: BCM  
..... Project Information  
Center project name: chr-3  
Center clone name: RP11-78010 (bc0618)  
..... Summary Statistics  
Sequencing vector: unknown; 42% of reads  
Sequencing vector: plasmid; 58% of reads  
Chemistry: dye-terminator; 92% of reads  
Chemistry: dye-terminator Big Dye; 8% of reads  
Assembly program: Phrap; version 0.90319  
Consensus quality: 158969 bases at least 040  
Consensus quality: 162023 bases at least 020  
Insert size: 202900; 21.9% error; agarose-fp

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Matches 162; Conservative 0; Mismatches 46; Indels 3; Gaps 2;  
Qy 2 GCAGCAGGGCGCGGGAGGAATTGAGGACCGGAG--CGGTGACGGGTCACCA 59  
Db 149268 GGAACTCGCTGGAGGCAATTGAGCAACGGAGCGGGGGCTACGAA 149327  
Qy 60 ACTGTCGTCGTCCTG-GCAGCTGTCCTGGCTGCTGAGTCGAGCCATATGCTA 118  
Db 149328 GCGGACCGTGTAGCTTCTGGCTCCCTGGCCCTGTAGTCCAGCCATATGCTA 149387  
Qy 119 TCCCTCTCTGCACTATCTGCTCCGACTCTTCGATCACTTGCAATG 178  
Db 149388 TCGTGTCTGCACTATCTGCTCCGACTCTTCGATCACTTCCAGCCAGTGGCCCA 149447  
Qy 179 TCCACTGTGCGCAACTTCACTTGCAATG 209  
Db 149448 TCCACTGCGCCACACCTTCCACTTGCAATG 149478

Insert size: 162724; sum-of-contigs  
Quality coverage: 9.0x in Q20 bases; agarose-fp  
Quality coverage: 11.2x in Q20 bases; sum-of-contigs  
.....  
NOTE: This is a 'working draft' sequence. It currently  
\* consists of 8 contigs. The true order of the pieces  
\* is not known and their order in this sequence record is  
\* arbitrary. Gaps between the contigs are represented as  
\* runs of N, but the exact sizes of the gaps are unknown.  
\* This record will be updated with the finished sequence  
\* as soon as it is available and the accession number will  
\* be preserved.  
\* 1 4608: contig of 4608 bp in length  
\* 4609 4708: gap of unknown length  
\* 4709 10290 10389: gap of unknown length  
\* 10390 17105: contig of 6716 bp in length  
\* 17106 17206 45100: contig of 27895 bp in length  
\* 45101 45201 45174: gap of 5581 bp in length  
\* 45201 65175 65274: gap of 19974 bp in length  
\* 65175 65275 65279: gap of unknown length  
\* 65275 90820 90819: contig of 25445 bp in length  
\* 90820 119377 119377: contig of 28558 bp in length  
\* 119378 119478 119478: gap of unknown length  
\* 119478 119478 119478: contig of 43947 bp in length.  
FEATURES  
source  
/organism="Homo sapiens"  
/db\_xref="taxon:9606" 1. .163424  
Query Match  
Best Local Similarity 5.6%; Score 111.4; DB 1; Length 163424;  
Matches 162; Conservative 0; Mismatches 46; Indels 3; Gaps 2;  
Qy 2 GCAGCAGGGCGCGGGAGGAATTGAGGACCGGAG--CGGTGACGGGTCACCA 59  
Db 149268 GGAACTCGCTGGAGGCAATTGAGCAACGGAGCGGGGGCTACGAA 149327  
Qy 60 ACTGTCGTCGTCCTG-GCAGCTGTCCTGGCTGCTGAGTCGAGCCATATGCTA 118  
Db 149328 GCGGACCGTGTAGCTTCTGGCTCCCTGGCCCTGTAGTCCAGCCATATGCTA 149387  
Qy 119 TCCCTCTCTGCACTATCTGCTCCGACTCTTCGATCACTTGCAATG 178  
Db 149388 TCGTGTCTGCACTATCTGCTCCGACTCTTCGATCACTTCCAGCCAGTGGCCCA 149447  
Qy 179 TCCACTGTGCGCAACTTCACTTGCAATG 209  
Db 149448 TCCACTGCGCCACACCTTCCACTTGCAATG 149478

RESULT 11  
 HS65N24 HS465N24 129747 bp DNA linear PRI 23-NOV-1999  
 LOCUS DEFINITION Human DNA sequence from clone 465N24 on chromosome 1p35, 1-36 13.  
 Contains two novel genes, ESTs, GSSs and CPG islands, complete sequence.  
 ACCESSION AL031432  
 VERSION AL031432.1 GI:4375969  
 KEYWORDS HMG; CPG Island.  
 SOURCE  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrates; Euteleostomi; Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE 1 (bass 1 to 129747)  
 AUTHORS Wilson,S.  
 JOURNAL Direct Submission  
 COMMENT Submitted (11-FEB-1999) Sanger Centre, Hinxton, Cambridgeshire, CB10 1SA, UK. E-mail: humquery@sanger.ac.uk  
 On Mar 7, 1999 this sequence version replaced gi:4176479.  
 During sequence assembly data is compared from overlapping clones. Where differences are found these are annotated as variations together with a note of the overlapping clone name. Note that the variation annotation may not be found in the sequence submission corresponding to the overlapping clone, as we submit sequences with only a small overlap as described above.  
 This sequence is the entire insert of clone 465N24. This sequence has been finished according to sequence map criteria as follows. An attempt is made to resolve all sequencing problems, such as compressions and repeats, but not necessarily within known annotated human repeat sequence elements (e.g. Alu). Where the sequence is ambiguous, there is an annotation using the 'unsure' feature key.  
 This sequence was generated from part of bacterial clone contigs of human chromosome 1, constructed by the Sanger Centre Chromosome 1 Mapping Group. Further information can be found at <http://www.sanger.ac.uk/HGP/Chrl465N24> is from the library Rcp13 constructed at the Roswell Park Cancer Institute by the group of Pieter de Jong. For further details see <http://bacpac.med.buffalo.edu/> VECTOR: PCYRAC2.  
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 repeat\_region  
 915. .1303 /note="AluJO repeat: matches 1. .311 of consensus"  
 repeat\_region  
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 2061. .2268 /note="MIR repeat: matches 100. .262 of consensus"  
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 2516. .2516 /note="MER5A repeat: matches 5. .164 of consensus"  
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 2219. .2827 /note="AluYB repeat: matches 1. .318 of consensus"  
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 3247. .3865 /note="L2 repeat: matches 2688. .2746 of consensus"  
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 3444. .3676 /note="MIR repeat: matches 8. .249 of consensus"  
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 3856. .3856 /note="LTR41 repeat: matches 20. .182 of consensus"  
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 4187. .4187 /note="AluSG repeat: matches 1. .308 of consensus"  
 repeat\_region  
 4846. .5143 /note="AlusX repeat: matches 1. .304 of consensus"

repeat\_region /note="AluSX repeat: matches 1. .296 of consensus"  
 repeat\_region 5287. .5340 /note="L1MD1 repeat: matches 5345. .5398 of consensus"  
 repeat\_region 5361. .5518 /note="L1MA4 repeat: matches 5423. .6091 of consensus"  
 repeat\_region 6176. .6245 /note="L1MA4 repeat: matches 6152. .6300 of consensus"  
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 repeat\_region 6529. .6674 /note="AluSG repeat: matches 15. .291 of consensus"  
 repeat\_region /note="73 copies 2 mer ta 73% conserved"  
 repeat\_region 6741. .6874 /note="L1MD1 repeat: matches 6090. .6223 of consensus"  
 repeat\_region 7225. .7278 /note="MIR repeat: matches 36. .85 of consensus"  
 repeat\_region 8137. .8148 /note="AluX repeat: matches 1. .312 of consensus"  
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 repeat\_region 9229. .9326 /note="L12 repeat: matches 2574. .2670 of consensus"  
 repeat\_region 9669. .9732 /note="MIR repeat: matches 87. .148 of consensus"  
 repeat\_region 10162. .10305 /note="L12 repeat: matches 8. .222 of consensus"  
 repeat\_region 10379. .10505 /note="MIR repeat: matches 8. .222 of consensus"  
 repeat\_region 10654. .10814 /note="L12 repeat: matches 2586. .2710 of consensus"  
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 repeat\_region 14331. .14466 /note="AluY repeat: matches 1. .291 of consensus"  
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 repeat\_region 17567. .17775 /note="L1ME3A repeat: matches 4012. .4208 of consensus"  
 repeat\_region 17912. .18219 /note="AluSG repeat: matches 1. .313 of consensus"  
 repeat\_region 18401. .18922 /note="L1ME3A repeat: matches 4315. .4848 of consensus"  
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KEYWORDS		GRM7 gene; metabotropic glutamate receptor 7; plasminogen related growth factor receptor 3; PRGR3 gene; Sand gene; TRAF interacting protein; triplex gene.
Quality coverage: 9.0x in Q20 bases; agarose-fp sum-of-contigs		Takifugu rubripes.
* NOTE: This is a 'working draft' sequence. It currently consists of 8 contigs. The true order of the pieces is not known and their order in this sequence record is arbitrary. Gaps between the contigs are represented as runs of N, but the exact sizes of the gaps are unknown.		Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Actinopterygi; Neopterygi; Teleostei; Buteleosteii; Neoteleosteii; Acanthomorpha; Acanthopterygii; Percormorpha; Tetraodontiformes; Tetraodontidae; Takifugu.
* This record will be updated with the finished sequence as soon as it is available and the accession number will be preserved.		Cottontail:A., Clark,M., Hawker,K., Umrania,Y., Wheller,D., Bishop,M. and Elgar,G.
FEATURES	1	4608: contig of 4608 bp in length
	4609	4708: gap of 4608 bp in length
FEATURES	2	4709: contig of 5581 bp in length
	10290	10389: gap of unknown length
FEATURES	3	10390: contig of 6716 bp in length
	17105	17106: gap of unknown length
FEATURES	4	17206: contig of 27895 bp in length
	45101	45200: gap of unknown length
FEATURES	5	45201: contig of 19974 bp in length
	65175	65274: gap of unknown length
FEATURES	6	65275: contig of 25445 bp in length
	90720	98819: gap of unknown length
FEATURES	7	90820: contig of 28558 bp in length
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AUTHORS Worley, K.C.  
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 of Molecular and Human Genetics, Baylor College of Medicine, One  
 Baylor Plaza, Houston, TX 77030, USA  
 COMMENT On Oct 14, 2001 this sequence version replaced gi:12043113.  
 Center : Baylor College of Medicine  
 Center code: BCM  
 Web site: <http://www.hgsc.bcm.tmc.edu/>  
 Contact: hgsc-help@bcm.tmc.edu

Project Information  
 Center project name: HBFY  
 Center clone name: RP23-51b010  
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 Chemistry: dye-terminator Big Dye: 88% of reads  
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 Consensus quality: 202406 bases at least Q30  
 Consensus quality: 211582 bases at least Q20  
 Estimated insert size: 209330; sum-of-contigs estimation  
 Quality coverage: 0x in Q20 bases; adarose-fp estimation  
 Quality coverage: 6.6x in Q20 bases; sum-of-contigs estimation  
 \* NOTE: Estimated insert size may differ from sequence length  
 (see <http://www.hgsc.bcm.tmc.edu/docs/Genbank/Draft-data.html>).  
 \* NOTE: This is a 'working draft' sequence. It currently  
 \* consists of 6 contigs. The true order of the pieces  
 \* is not known and their order in this sequence record is  
 \* arbitrary. Gaps between the contigs are represented as  
 \* runs of N, but the exact sizes of the gaps are unknown.  
 \* This record will be updated with the finished sequence  
 \* as soon as it is available and the accession number will  
 \* be preserved.  
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 \* 69094 69193: gap of unknown length  
 \* 69194 122186: contig of 52993 bp in length  
 \* 122187 122286: gap of unknown length  
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 AUTHORS Djian, P. and Green, H.  
 TITLE Vectorial expansion of the involucrin gene and the relatedness of  
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 JOURNAL Proc. Natl. Acad. Sci. U.S.A. 86, 8447-8451 (1989)  
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VPPDCETPPIPQETTQLRQLEQFQVAGACVAFQVTLGARRETKEVSPAVLPPK									
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ACCESSION VERSION	KEYWORD SOURCE	ORGANISM
AC007461.8	GI:4996920	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Homo sapiens
	HTG.	human.
	AUTHORS	Birren, B., Linton, L., Nusbaum, C., and Lander, E.
	TITLE	Homo sapiens chromosome 17, clone 84_E_24
	JOURNAL	Unpublished
	REFERENCE	2 (bases 1 to 180385)
	AUTHORS	Birren, B., Linton, L., Nusbaum, C., Lander, E., Allen, N., Anderson, M., Castle, A., Cerny, J., Colangelo, M., Collins, S., Collymore, A., Cooke, P., Dekrelino, K., Depaule, E., Devon, K., Dewar, K., Donelan, L., Doyle, M., Ferreira, P., FitzHugh, W., Forrest, C., Funke, R., Gage, D., Galagan, J., Gardyn, S., Gilbert, D., Grant, G., Hados, B., Heaford, A., Horton, L., Howland, J. C., Jones, C., Kann, L., Karatas, A., Lehocky, J., Lieu, C., Locke, K., Macdonald, P., Marquis, N., McEwan, P., McGurk, A., McKernan, K., McLaughlin, J., Medrini, J., Molla, M., Morris, W., Morrow, J., Mychaleckyj, J., Naylor, J., Nifio, M., O'Connor, T., O'Donnell, P., Pavlin, B., Peterson, K., Pollara, V., Riley, R., Roberts, D., Roy, A., Severy, P., Stange-Thomann, N., Stojanovic, N., Stone, C., Subramanian, A., Testayre, S., Torrusella-Miller, I., Vassiliev, H., Vo, A., Wagner, A., Wheeler, J., Wu, X., Wyman, D., Ye, W. J. and Zody, M.
	TITLE	Direct Submission
	JOURNAL	Submitted (04-MAY-1999) Whitehead Institute/MIT Center for Genome Research 320 Charles Street, Cambridge, MA 02111, USA
	REFERENCE	3 (bases 1 to 180385)
	AUTHORS	Birren, B., Linton, L., Nusbaum, C., Lander, E., Allen, N., Anderson, M., Castle, A., Cerny, J., Colangelo, M., Collins, S., Collymore, A., Cooke, P., Dekrelino, K., Depaule, E., Devon, K., Dewar, K., Donelan, L., Doyle, M., Ferreira, P., FitzHugh, W., Forrest, C., Funke, R., Gage, D., Galagan, J., Gardyn, S., Gilbert, D., Grant, G., Hados, B., Heaford, A., Horton, L., Howland, J. C., Jones, C., Kann, L., Karatas, A., Lehocky, J., Lieu, C., Locke, K., Macdonald, P., Marquis, N., McEwan, P., McGurk, A., McKernan, K., McLaughlin, J., Medrini, J., Molla, M., Morris, W., Morrow, J., Mychaleckyj, J., Naylor, J., Nifio, M., O'Connor, T., O'Donnell, P., Pavlin, B., Peterson, K., Pollara, V., Riley, R., Roberts, D., Roy, A., Severy, P., Stange-Thomann, N., Stojanovic, N., Stone, C., Subramanian, A., Testayre, S., Torrusella-Miller, I., Vassiliev, H., Vo, A., Wagner, A., Wheeler, J., Wu, X., Wyman, D., Ye, W. J. and Zody, M.
	TITLE	Direct Submission
	JOURNAL	Submitted (04-JUN-1999) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02111, USA
	COMMENT	On Jun 4, 1999 this sequence version replaced gi:4966400. All repeats were identified using RepeatMasker: Smit, A.F.A. & Green, P. (1996-1997) <a href="http://ftp.genome.washington.edu/RM/RepeatMasker.html">http://ftp.genome.washington.edu/RM/RepeatMasker.html</a>
	FEATURES	Only 180385 base pairs from the middle of this clone are being submitted. The remainder overlaps either accession number AC005152 (WIGGR project L335) or accession number AC005243 (WIGGR project L343). Location/Qualifiers
	source	1. 180385 /organism="Homo sapiens" /db_xref="taxon:9606" /map="17" /chromosome="17" /clone="84_E_24" /clone_1b="Alan Buckler -- per comm" 446. 753 /rpt_family="AluSc" 2375. 2419 /rpt_family="TTTGGn" complement(2985..3103) /rpt_family="L2" complement(3146..3352)
	repeat_region	repeat_region /rpt_family="AluSc" 24553..24858 /rpt_family="AluY" complement(2501..25234) /rpt_family="MTR" 2531..5631 /rpt_family="AluY" 26957..27261
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ACCESSION	AF148805	VERSION	AF148805.1	GI	5669888
BEST LOCAL SIMILARITY	2.5%	SCORE	50	DB	9
LOCUS	AF148805	20559 bp	DNA	LINEAR	VRL 02-AUG-1999
DEFINITION	Kaposi's sarcoma-associated herpesvirus ORF 68 gene, partial cds; and ORF 69, kaposin, v-FLIP, v-cyclin, latent nuclear antigen, ORF K14, v-GP90, putative phosphobilisiformylglycinamide synthase, and LAMP (LAMP) genes, complete cds.				
FEATURES	source	1	28559	gene	
FEATURES	polyA_site	1	2105	polyA_signal	
FEATURES	polyA_signal	1	2144	polyA_signal	
RESULT	29				
Db	17861	AGKGWCMITGKSKKGKKYASKRKGKKCTTYWRKMSAWSRKRWWAYSMRCAAGMMGA	453	REFERENCE	1 (bases 1 to 28559)
Qy	454	ATGGCTACCGTGAGTCCTACAGAACCCCTAACAGCAGAGATCTGTTCCACC	513	AUTHORS	Glenn.M., Rainbow,L., Aurade,F., Davison,A. and Schulz,T.F.
Db	17801	CGASRSMKCCWGSQSKGSKSSRGGTGKGGGKGSMSKKWGSSTERRGSSAK	17742	TITLE	Identification of a spliced gene from Kaposi's sarcoma-associated herpesvirus encoding a protein with similarities to latent membrane proteins 1 and 2A of Epstein-Barr virus
Qy	514	CTGGAAACACAGTGAAGTCTGGAGGAGCGCCAGGTGAGCCAAACAGTCGGAG	573	JOURNAL	J. Virol. 73 (8), 6953-6963 (1999)
Db	17741	SCSYMMWGMSCMSMCSMSAKSYMMCYIWMSMSSYVYKCYSCMGMSSTSISYSCWKM	17682	MEDLINE	99329221
Qy	574	GAGGCCACCGACTCAAGTGCAGATGAACTGGAGATGTTGGGAGACAGCAGCGTG	693	AUTHORS	Glenn.M., Rainbow,L., Aurade,F., Davison,A.J. and Schulz,T.F.
Db	17681	SSWGSCKKMKYKSYGSYSSTSCKKYSCKSCKWMSMCKTSKSYRRRSYYWG	17622	TITLE	Direct Submission
Qy	634	ASCCAGCTTCAGGTGAGGAGATGATTGGAGATGGGGAGACATGGGGAGACAGCAGCGTG	693	JOURNAL	Submitted (15-APR-1999) MRC Virology Unit, Church Street, Glasgow G11 5JU, UK
Db	17621	GGGRAKKYYCACRRRMSYWSKWCMSKSYCMTTYSKSYCSCYKRSYKRSYKRGYY	17562	FEATURES	Location/Qualifiers
Qy	694	GAGCAGCTGGCTGTACTGCGTGTCCCAAGAAGAGTATGAGAACTGAGGAAGCT	753	source	1. .20559
Db	17561	WWSKTCVWSAGGRSSRMSYWSKWCMSKSYCMTTYSKSYCSCYKRSYKRSYKRGWR	17502	gene	1. .20559
Qy	754	CGGAGGGCACAGGGAACTGGGTGACAGCAGTGGAGATGTTGGTCCCTAGAGG-	812	gene	1. .20559
Db	17501	SSKGKRSKGKRSKCKTGSYGSSTGRSMKKKKTGYCMMKKYKRT	17442	CDS	1. .20559
Qy	813	CAAGTTGAGACTCTCACACTGAGCTGATCAGGCCAAGTGGTGAAGTCAGGCA	872	gene	1. .20559
Db	17441	SMKWWYMKWSKGKRYKRCMCKRKGTYGRGMSYWSKSYCSCYKRSYKRSYKRGW-	17382	gene	1. .20559
Qy	873	GAAGGACTTACAAACTGCTGACCCAGGATCAGCAGCTAAGAAGAAGTCAGTATGATCC	932	CDS	1. .20559
Db	17381	YSMKCKMYSKRRRMSMGSMSKWSWGRGYARGCYSSSMNMRKRSKSYKSYKKG	17322	gene	1. .20559
Qy	933	TCCAGG-GAACCTGTAGCTGCGCTCCGGGACCATGAGACAGCAGGGTACGCCCTGTTTGT	991	CDS	1. .20559
Db	17321	RGKMKGNGMKRSKSYKSMKMKRKSWSKSYCSTKSYKSGRKSKGWRSTKSKAKSSM	17262	gene	1. .20559
Qy	992	AGGCCCGCCCTGTGAGATGACCCAGG-CCTTACACGACCTCTCGTGA	1049	CDS	1. .20559
Db	17261	MAGSKCTYGTGSSWNNRNRNKGKTCGNYMRKSRSRAMMINGNAAAGCTTCCGANTNGG	17202	gene	1. .20559
Qy	1050	TGAGATGATCATAACACCTTGTATGTAATACCCCTCACCCAGACCTCTGGCTC	1109	CDS	1. .20559
Db	17201	GGAAAAAAGGGGSASRASCYKGMRNSKSYCYSRGRTRRCKMSKSRRSRGSRG	17142	gene	1. .20559
Qy	1110	CCAGCATATGCCCTCCCAGAAGACGGTGTGCTGGAGAGGGCACCCCTCCTCCATGGAGATGT	1169	CDS	1. .20559
Db	17141	GKTSYSAKGSGRGCYICWGMGRKGRCMMSRKKMMSYRRRWTCKMCKMYSMMAMY	17082	gene	1. .20559
Qy	1170	CCCTCAAGAAGGGCACACAAGTCCTCAAGGCCGGATCCTCAGCTCTACTGGG	1229	CDS	1. .20559
Db	17081	CRSMCCMCKSCKCCGCSMGMSSSYSGKSYGMSKSMWRSYSSKRSKSYKRSRSGM	17022	gene	1. .20559
Qy	1230	ATGTGTAGGAGGACTAGATGAGGAACTGGCTGGGCC	1266	CDS	1. .20559
Db	17021	TGGRYKGGRSYYKGGGSGKSYKGGGSGKSYKGGKSTRU	16985	gene	1. .20559



QY	816	GTGAAAGACTCTACACTGAGCTGAGCGATCAGGCCAAGTTGAGACTGAGSTCACCCAGAA	875	/db_xref="taxon:9606"
Db	9611	GTAGAGGAGCAGGAGCTAGGAGCTAGGAGCAGGAGCAGGAGCTAGGAGGT	9552	/clone=RP11-5P19; /clone_lib="RPCI-11 Human Male BAC"
QY	876	GGACTTACAAGTCTGACCGAGA	899	
Db	9551	GGAGAGCAGCAGGAGCAGGA	9528	
RESULT	30			
LOCUS	AC016837	AC016837	140207	b9
DEFINITION		Homo sapiens clone RP11-5P19, *** SEQUENCING IN PROGRESS	***,	3
ACCESSION		AC016837	9.9	GI:17977430
VERSION		HNG	_PHASE1	HTGS_FULLTOP; HTGS_ACTIVEFIN.
SOURCE		human.		
ORGANISM		Homo sapiens		
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;				
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
REFERENCE	1	(bases 1 to 140207)		
AUTHORS	Birren,B., Linton,L., Nusbaum,C.	and Lander,E.		
TITLE	Homo sapiens chromosome, clone RP11-5P19			
JOURNAL	Unpublished			
REFERENCE	2	(bases 1 to 140207)		
AUTHORS	Birren,B., Linton,L., Nusbaum,C., Lander,E., Allen,N., Anderson,M., Baldwin,J., Castle,A., Beckley,R., Boguslavskiy,L., Boukhalter,B., Cooke,P., Dearellano,K., Dewart,K., Domino,M., Donean,L., Doyle,M., Ferreira,P., FitzHugh,W., Forrest,C., Funke,R., Gage,D., Galagan,J., Gardyn,S., Grant,G., Haggos,B., Heaford,A., Horton,L., Howland,J.C., Johnson,R., Jones,C., Kann,L., Karatas,A., Klein,J., Lebochky,J., Lieu,C., Locke,K., Macdonald,P., Marquis,N., McEwan,P., McGurk,A., McKernan,K., Morrow,J., Naylor,J., Norman,C.H., O'Connor,T., O'Donnell,P., Pateron,K., Peterson,K., Poliara,V., Riley,R., Roy,A., Santos,R., Severy,P., Strange-Thomann,N., Stojanovic,N., Subramanian,A., Talamas,J., Tesfaye,S., Tirrell,A., Vassilev,H., Vo,A., Wheeler,J., Wu,X., Wyman,D., Ye,W.J., Zimmer,A. and Zody,M.			
JOURNAL	Submitted (08-DEC-1999) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA			
COMMENT	All repeats were identified using RepeatMasker; <a href="http://ftp.genome.washington.edu/RM/RepeatMasker.html">http://ftp.genome.washington.edu/RM/RepeatMasker.html</a>			
TITLE	Genome Center			
Center : Whitehead Institute/ MIT Center for Genome Research				
Center code : WIBR				
Web site : <a href="http://www-seq.wi.mit.edu">http://www-seq.wi.mit.edu</a>				
Contact : <a href="mailto:sequence_submissions@genome.wi.mit.edu">sequence_submissions@genome.wi.mit.edu</a>				
----- Project Information				
Center project name : L2545				
Center clone name : 5_P_19				
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* NOTE: This is a 'working draft' sequence. It currently				
* consists of 3 contigs. The true order of the pieces				
* is not known and their order in this sequence record is				
* arbitrary. Gaps between the contigs are represented as				
* runs of N, but the exact sizes of the gaps are unknown.				
* This record will be updated with the finished sequence				
* as soon as it is available and the accession number will				
* be preserved.				
1	3960:	contig of 3960 bp in length		
**	3961	4060: gap of 100 bp		
**	4061	87705: contig of 83645 bp in length		
**	87706	87805: gap of 100 bp		
**	87806	140207: contig of 52402 bp in length.		
FEATURES	location/Qualifiers			
source	1..140207	/organism="Homo sapiens"		
REFERENCE	3	(bases 1 to 164310)		
RESULT	31			
LOCUS	AC019294/C	AC019294	164310 bp	DNA
DEFINITION		Homo sapiens chromosome , clone RP11-24M17, complete sequence.		PRI 02-JAN-2002
ACCESSION		AC019294		
KEYWORDS		HNG.		
SOURCE		Homo sapiens		
ORGANISM		Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.		
REFERENCE	1	(bases 1 to 164310)		
AUTHORS	Birren,B., Linton,L., Nusbaum,C.	and Lander,E.		
TITLE	Homo sapiens chromosome, Clone RP11-24M17			
JOURNAL	Unpublished			
REFERENCE	2	(bases 1 to 164310)		
AUTHORS	Birren,B., Linton,L., Nusbaum,C., Lander,E., Abraham,H., Allen,N., Anderson,S., Baldwin,J., Barna,N., Beckerly,R., Beda,F., Castle,A., Choepe,Y., Colangelo,M., Collins,S., Collymore,A., Cooke,P., Dearellano,K., Dewart,K., Domino,M., Doyle,M., Fenestor,J., Ferreira,P., FitzHugh,W., Forrest,C., Gage,D., Galagan,J., Gardyn,S., Grant,G., Haggos,B., Heaford,A., Horton,L., Howland,J.C., Johnson,R., Jones,C., Kann,L., Karatas,A., Klein,J., Landers,T., Lebochky,J., Levine,R., Lieu,C., Liu,C., Locke,K., Macdonald,P., Marquis,N., McEwan,P., McGurk,A., McKernan,K., McPheeters,R., Meldrim,J., Meneus,L., Morrow,J., Naylor,J., Norman,C.H., O'Connor,T., O'Donnell,P., Oliver,T.M., Pateron,K., Pierre,N., Pisani,C., Poliara,V., Raymond,C., Riley,R., Rotman,D., Roy,A., Santos,R., Severy,P., Spencer,B., Strange-Thomann,N., Stojanovic,N., Subramanian,A., Talamas,J., Tesfaye,S., Theodore,J., Tirrell,A., Vassilev,H., Viel,R., Vo,A., Wu,X., Wyman,D., Ye,W.J., Zimmer,A. and Zody,M.			
JOURNAL	Submitted (31-DEC-1999) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA			
REFERENCE	3	(bases 1 to 164310)		
Query Match	2.5%	Score 49.2;	DB 2;	Length 140207;
Best Local Similarity	49.7%	Pred. No. 0.017;		
Matches	154;	Conservative 0;	Mismatches	153;
Indels	3;	Gaps 1;		
BASE COUNT	37612	a 29580	c 31494	g 41321 t 200 others
ORIGIN				
QY	536	TGGAGCAGGGCAGATGGACCAACAGAGCTGGGAGGCCACGCCAAGTCAGGCCA 595		
Db	30923	TGGAGCAGGTACAAGATGAGTGGCCAAACACTGTAGGAAGGAGGTGGAGACTTGGAGGA 30982		
QY	595	AGATGAAACCATGGACCAATGGCTCTACTCCAGGCCAGCGTGTGAGCTGGGGAGG 655		
Db	30983	AGCTCCAACCTCAAGTGGAAACACAGGCCAGCGTGTGAGCTGGAGAACAAAGT 31042		
QY	656	AGATGATGGAGACATGGGGTGGGACACTCAGGGTGGAGCAGCTGGCTGTGTGTT-ACT 712		
Db	31043	AGAGCTCCAGGAGCAGGAGGCTCGAGAGCAGGAGGTGGGGTGGGGAGC 31102		
QY	713	GCGTGTCCTCAAGAAGGTATGAGGAAGCTGAGGAAGCTGAGGCCACGGGAC 772		
Db	31103	AGGAGAGACTGTGTGAGCAATGAGGCTCGGGAGCAGGAGCTACGGAGC 31162		
QY	773	TGGCTGACGGTTGAGAAGGATGGTGTCTCTAGGCAAGTGGAGACTCTCAACA 832		
Db	31163	AGGTGAGGGCTGGAAGCAGCAGGCTATGAGCAGCAGGAGGAGGAGCTGCCA 31222		
QY	833	CTGAGCTGGA 842		
Db	31223	AGGAGGAGGA 31232		



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Query Match 2.5%; Score 49.2; DB 9; Length 164310;  
 Best Local Similarity 49.7%; Pred. No. 0.017; 0; Mismatches 153; Indels 3; Gaps 1;  
 Matches 154; Conservative 0; JOURNAL COMMENT

QY 536 TGGACGAGCGCAGATGAGACCAACAGCTCGGAGAGGCCACCGACTCAGTCA 595  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 87074 TGAGGCAGTCAGTAGGCAACACCTGTGAGAGGTGAGCTGGAGAA 87015  
 QY 596 AGATGAAACCATGGAGCAATTGAGCTCTACTCAGAGCCAGGGTCTGAGGGAGG 655  
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 Db 87014 AGCTCCAATCCAAGGTGGAAACACAGCCCTTGAGTCCTGAGCAAGGAAACT 86955  
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 QY 656 AGATGATTGAGACATGGGTTGGACAGTCAGGCGCTGGCTGTTGTTGTTTACT 712  
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 Db 86954 AGAGGCTCCAGGAGGAGGAGGAGGCTCCAGGAGCAGGAGGAGTGGAGGGAGC 86895  
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 Db 86894 AGGAGAGCTGTGAGCAATGAGGCCCTGGAGCAGAGACGCTACGGAGC 86835  
 QY 773 TGGCTGACAGTTGAGAAGGATTGGTGTCTCTAGGAGCAGTTGAGACTCTAAC 832  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 86834 AGGTTGAGAGCTGCGAAAGCAGGAGCTATGCAAGCAGGAGGAGGAGCTGCGAA 86775  
 QY 833 CTGACCTGGA 842  
 ||||| |||||  
 Db 86774 AGGGAGGAGGA 86765

RESULT 32  
 AC027104/c  
 LOCUS AC027104 180795 bp DNA linear HTG 07-FEB-2002  
 DEFINITION Homo sapiens chromosome 15 clone RP11-326L17 map 15, \*\*\* SEQUENCING  
 IN PROGRESS \*\*\*, 2 ordered pieces.

ACCESSION AC027104  
 VERSION 4.5  
 KEYWORDS HTG; HTGS\_PHASE2; HTGS\_FULLTOP; HTGS\_ACTIVEFIN.  
 SOURCE human.

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 180795)  
 AUTHORS Birren,B., Linton,L., Nusbaum,C. and Lander,E.  
 TITLE Homo sapiens chromosome 15, clone RP11-326L17  
 JOURNAL Unpublished  
 REFERENCE 2 (bases 1 to 180795)  
 AUTHORS Birren,B., Linton,L., Nusbaum,C., Lander,E., Abraham,H., Allen,N., Anderson,S., Baldwin,J., Barna,N., Bastien,V., Beda,F., Boguslavsky,L., Boukhalter,B., Brown,A., Burkett,G., Campolino,A., Castle,P., Choepel,Y., Coiangelio,M., Collins,S., Collymore,A., Cooke,P., Deurrellano,K., Dwarz,K., Diaz,J.S., Dodge,S., Domingo,M., Doyle,M., Ferreira,P., FitzHugh,W., Gage,D., Galagan,J., Gardyna,S., Ginde,S., Goyette,M., Graham,L.,

BASE COUNT 55798 a 38910 c 35406 g 50501 t 180 others  
 ORIGIN

Query Match 2.5%; Score 49.2; DB 2; Length 180795;  
 Best Local Similarity 49.7%; Pred. No. 0.018; 0; Mismatches 153; Indels 3; Gaps 1;  
 Matches 154; Conservative 0; JOURNAL COMMENT

QY 535 TGGACGAGGCCAGATGAGCAATGAGCAACAGCTCGGAGGCCACCGACTCAAGTCA 595  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 175486 TGGACGAGCTCAAGATGAGTGGGCCAACACCTGAGGAAGGAGGTGGAGGA 175427  
 QY 596 AGATGAAACCATGGAGCAATGAGCAACAGCTCGGAGGCCACCGACTCAAGTCA 655  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 175426 AGCTCCAATCCAAGGTGGAAACACAGGCCCTGAGTCCTCTGAGCAAGGAACAAAGT 175367  
 QY 656 AGATGATTGAGACATGGGTTGGACAGTCAGGCGCTGGCTGTTGTTGTTTACT 712  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 175366 AGAGGCTCCAGGAGGAGGAGGAGGCTGGCTGAGCAGGAGGTGGAGC 175307  
 QY 713 GCGTGTCCCTCAAGAAAGGTATGAGAATCTGAGGAACGCTGGAGAGGCCACAGGGAGC 772  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 175305 AGGAGAGACTGTGAGCAAATGAGGAGCTGGAGGCCAGCAGAACGCTACGGAGC 175247

Db 175186 AGGAGGAGGA 842  
 Db 175187 AGGAGGAGGA 17517

RESULT 33  
 AC073564/C  
 AC073564 227605 bp DNA linear HTGS 17-AUG-2001  
 LOCUS MUS MUSCULUS chromosome 12 clone RP23-32J01 strain C57BL/6J,  
 DEFINITION WORKING DRAFT SEQUENCE, 12 unordered pieces.  
 ACCESSION AC073564  
 VERSION AC073564.3 GI:15208561  
 KEYWORDS HTGS;PHASBL; HTGS\_DRAFT; HTGS\_FULLTOP; HTGS\_ACTIVEFIN.  
 SOURCE house mouse.  
 ORGANISM Mus musculus  
 Mammalia; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Eukaryota; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 Smith,D.R.  
 REFERENCE 1 (bases 1 to 227605)  
 AUTHORS Smith,D.R.  
 TITLE Genome Therapeutics Corporation Sequencing Center: Mouse Genome  
 JOURNAL Sequence Data  
 COMMENT Submitted (24-JUN-2000) Genome Therapeutics Corporation, 100 Beaver  
 Street, Waltham, MA 02453, USA  
 On Aug 17, 2001 this sequence version replaced gi:13992669.  
 Unpublished  
 2 (bases 1 to 227605)  
 Direct Submission  
 Smith,D.R.  
 Direct Submission  
 Submitted (24-JUN-2000) Genome Therapeutics Corporation, 100 Beaver  
 Street, Waltham, MA 02453, USA  
 On Aug 17, 2001 this sequence version replaced gi:13992669.  
 Genome Center  
 Center: Genome Therapeutics Corporation  
 Center code: GTC  
 Web site: <http://www.genomeweb.com/>  
 Contact: gtc-seqcenter@genomeweb.com  
 Center project: mg031  
 Center project name: mg031  
 -----  
 Summary Statistics  
 Sequencing vector: N/A  
 Chemistry: Dye-Terminator Big Dye; 100% of reads  
 Assembly program: Phrap; version 990315  
 Consensus quality: 21565 bases at least 040  
 Consensus quality: 21560 bases at least 030  
 Consensus quality: 217418 bases at least 020  
 Quality coverage: 6.3x in Q20 bases; sum-of-contigs  
 -----  
 \* NOTE: This is a 'working draft' sequence. It currently  
 \* consists of 12 contigs. The true order of the pieces  
 \* is not known and their order in this sequence record is  
 \* arbitrary. Gaps between the contigs are represented as  
 \* runs of N, but the exact sizes of the gaps are unknown.  
 \* This record will be updated with the finished sequence  
 \* as soon as it is available and the accession number will  
 \* be preserved.  
 \* 1 1184: contig of 1184 bp in length  
 \* 1 1285: contig of 1007 bp in length  
 \* 2292: gap of unknown length  
 \* 2391: gap of unknown length  
 \* 3633: contig of 1242 bp in length  
 \* 3733: gap of unknown length  
 \* 3734: 4991: contig of 1158 bp in length  
 \* 4892: gap of unknown length  
 \* 4992: 7248: contig of 2257 bp in length  
 \* 7249: 7348: gap of unknown length  
 \* 7349: 10764: contig of 3416 bp in length  
 \* 10765: 10865: 21712: gap of unknown length  
 \* 21813: 37164: contig of 15352 bp in length  
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 FEATURES source  
 1. 227605 Location/Qualifiers  
 1. 227605/contig of 82715 bp in length.  
 /organism="Mus musculus"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="RP23-32J01"  
 /clone\_id="RPCI-23"  
 1. 1184  
 /note="assembly\_name:Contig3"  
 1285. 2291  
 /note="assembly\_name:Contig4"  
 2392. 3633  
 /note="assembly\_name:Contig5"  
 3734. 4891  
 /note="assembly\_name:Contig7"  
 4992. 7248  
 /note="assembly\_name:Contig13"  
 7349. 10764  
 /note="assembly\_name:Contig19"  
 10865. 21712  
 /note="assembly\_name:Contig20"  
 21813. 37164  
 /note="assembly\_name:Contig21"  
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 37285. 60167  
 /note="assembly\_name:Contig22"  
 60268. 94520  
 /note="assembly\_name:Contig23"  
 94631. 144790  
 /note="assembly\_name:Contig24"  
 144891. 227605  
 /note="assembly\_name:Contig25"  
 clone\_end:T7"  
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 BASE COUNT 69141 a 46827 c 46364 g 63929 t 1344 others  
 ORIGIN  
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 Query Match 2.5%; Score 49.2; DB 2; Length 227605;  
 Best Local Similarity 44.5%; Pred. No. 0.018; Mismatches 243; Indels 0; Gaps 0;  
 Matches 195; Conservative 0; Mismatches 243; Indels 0; Gaps 0;  
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 Qy 484 TTAACAAACCGAGATGCGTGTCCACCCGTGAAACAGATGAGTGTCTGGAGCAG 543  
 Db 185984 TTTAAAAAGAGATGAGTGAAGAAGATGAGAAGAAGAAGAAGAAGAAGAAG 185925  
 Qy 544 CGCGAGGATGAGACCAACAGCTGGGGAGGGCCACCGACTGAGTGAAGTGAA 603  
 Db 185924 AAGANGAAGAAGAAGAAGAAGAAGAAGAAGAAGAAGAAGAAGAAGAAGAAG 185065  
 Qy 604 ACCATGGAGAAATTGAGCTCTACTCCAGGCCGCGTCTGAGTGGAGGAGTGGATT 663  
 Db 185864 AAGANGAAGAAGAAGAAGAAGAAGGAGGAGAAGAAGAAGAAGAAGAAG 185005  
 Qy 664 CGAGCATGGTGTGGACACTCGCGTGGACGCTGGCTGTACTCGTGTCCCTC 723  
 Db 185804 AAGGAGAAGGAGAAGGAGAAGGAGGAGGAGAAGGAGAAGGAGAAGGAGG 185745  
 Qy 724 AAGAAAGAGTATGAGAATCTGAGGAGAGCTGGAGAAGGCCACAGGGGAACTCTGCTACAGG 783  
 Qy 784 TTGAGAAGGATTGCTCTTGAGGAGAAGGAGAAGGAGAAGGAGAAGGAGGAGG 185685  
 Db 185744 AAGGAGAAGGAGAAGGAGAAGGAGAAGGAGAAGGAGAAGGAGGAGG 185685  
 Qy 784 TTGAGAAGGATTGCTCTTGAGGAGAAGGAGAAGGAGAAGGAGAAGGAGGAGG 185685  
 Db 185684 AAGGAGAAGGAGAAGGAGAAGGAGAAGGAGAAGGAGAAGGAGGAGGAGG 185685







QY	576	--GGCCACCGACTCAAGTGCAGATGAAACATGGAGCAATTGAGCTCTACTCCA	632	/organism="Mus musculus" /ab_xref="Taxon:10090" /chromosome="15" /clone="RP23-58B7" /clone_1.lib="RPCI-23"
Db	4221	CCCTGCGGGGAGACTCCGGAGAACGAGCCCTGGCCGAGGGAGAACATCTCGGA	4280	misc_feature
QY	633	GAGCCAGCGTCTCAGGGAGGAGATGATTCAGACATGGGTGGAGACAGTCAGGGT	692	/note="Sequence from uni-directional dgrp big dye terminator reads only"
Db	4281	GACCTGGCTCAGCTCAAGACACCGAGCGGGGCCAGAGACAGTCAGGGT	4340	147938...-148190
QY	693	GGAGCAGCTGGGTGTTACTGGCTGCTCTAGAAAGAGTATGAGAATCTGAGGAGC	752	BASE COUNT 64293 a 50995 c 55888 g 70256 t
Db	4341	CGAGGAGCTACCCGCAACAGCTTCAAGCTGAGGAGCTGGAGGAGGAGGAGA	4400	ORIGIN
QY	753	TGGAAAGGCCACAGGGAACTGGCTGACAGGTTGAGAGGATTGGTGTCTAGGAG	812	Query Match 2.4%; Score 48.2; DB 10; Length 241432; Best Local Similarity 42.8%; Pred. No. 0 034; Matches 242; Conservative 0; Mismatches 323; Indels 0; Gaps 0;
Db	4401	GCTGCCAGACCGCCAGGGAGCTGGCTGAGGAGGAAGAGCCGAGGGCCAGCTCGCA	4460	4461 CAAGGCCAGCACTGACTCTCAACACTGAGCTGGATCGAGGCCA 872
QY	813	CAAGTGAAGACTCTCAACACTGAGCTGGATCGAGGCCAAGTTGAGACTGAGGTAGCC	4520	Db 4461 CAAGGCCAGCACTGACTCTCAACACTGAGCTGGATCGAGGCCA 872
QY	873	GAGGACTACAAGTGTGACCAAGGAGATCAGGAGCTAAGAAGAAGTCTGATGATCC	932	Db 4521 GAGAAGCTCTCCGCCGAGAGTCTCAAGACCCCAAGACCGAGCCGACT 4580
Db	4581	CGAGCAGCTGAG 4596		
RESULT	39			
AL589661				
LOCUS	AL589661	241432 bp DNA	linear ROD 30-JAN-2002	
DEFINITION	mouse DNA sequence from clone RP23-58B7 on chromosome 15.			
ACCESSION	AL589661			
VERSION	AL589661.21			
KEYWORDS	HG			
SOURCE	mouse			
ORGANISM	Mus musculus			
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.			
AUTHORS	Dunn, M.			
TITLE	Direct Submission			
JOURNAL	Submitted (30-JAN-2002) Wellcome Trust Sanger Institute, Hinxton, Cambridgeshire, CB10 1SA, UK. E-mail enquiries: humquery@sanger.ac.uk. Clone requests: clonerequestsanger.ac.uk			
COMMENT	On Feb 1, 2002 this sequence version replaced gi:10151481.			
	During sequence assembly data is compared from previous clones. Where differences are found these are annotated as variations together with a note of the overlapping clone name. Note that the variation annotation may not be found in the sequence submission corresponding to the overlapping clone, as we submit sequences with only a small overlap as described above.			
	This sequence was finished as follows unless otherwise noted: all regions were either double stranded or sequenced with an alternate chemistry or covered by high quality data (i.e., phred quality > 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by at least one plasmid subclone or more than one M13 subclone; and the assembly was confirmed by restriction digest. The following abbreviations are used to associate primary accession numbers given in the feature table with their source databases: Em:, EMBL:, Sw:, SWISSPROT:, Tr:, TREMBL:, Wp:, WORMPEP: Information on the WORMPEP database can be found at <a href="http://www.sanger.ac.uk/Projects/C_elegans/wormpep">http://www.sanger.ac.uk/Projects/C_elegans/wormpep</a> RP23-58B7 is			
	constructed by the group of Pieter de Jong. For further details see <a href="http://www.chori.org/bacpac/home.htm">http://www.chori.org/bacpac/home.htm</a>			
FEATURES	vector: pBACE3.6			
	This sequence is the entire insert of clone RP23-58B7.			
	Location/Qualifiers			
	1. .241432			
RESULT	40			
AC016961				
LOCUS	AC016961	202010 bp DNA	linear HTG 13-DEC-2001	
DEFINITION	Homo sapiens chromosome 3 clone RP11-394J21, WORKING DRAFT			
SEQUENCE	6 unordered pieces.			
ACCESSION	AC016961			
VERSION	AC016961.16			
KEYWORDS	HG; HGs_PHASE1; HTGS_DRAFT; HTGS_FULLTOP.			
SOURCE	human			
ORGANISM	homo sapiens			
REFERENCE	1 (bases 1 to 202010)			
AUTHORS	Muzny, D. M., Adams, C. C., Adio-Oduola, B., Ali-Osman, F. R., Allen, C. M., Alsbrooks, S. L., Amarasinghe, H. C., Are, J. R., Banks, T., Barbera, J., Benton, J., Bimage, K., Blankenburg, K., Bonnin, D., Bouck, J.,			



Thu Sep 5 10:01:24 2002

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